

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

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1. (Currently Amended) A method for processing a digital image comprising:  
generating a set of original subpixel data values for a first pixel of a digital image as a  
function of pixel data of ~~a~~ the digital image;  
mapping each of the original subpixel data values to a new subpixel data value, each new  
subpixel data value being determined solely by the corresponding original subpixel data value;  
and  
adjusting the first pixel data of the digital image according to the new subpixel data  
values.
  2. (Currently Amended) The method of claim 1, wherein mapping the original subpixel data  
includes processing each of the original subpixel data values with a lookup table to generate the  
new subpixel data values.
  3. (Currently Amended) The method of claim 2, wherein processing each of the original  
subpixel data values with the lookup table includes interpolating between elements of the lookup  
table according to a fractional component of the original subpixel data value.
  4. (Original) The method of claim 2, wherein the lookup table stores a plurality of addressable  
replacement values, wherein each replacement value includes an integer component and a  
fractional component.

5. (Currently Amended) The method of claim 1, wherein mapping the original subpixel data values includes mapping the original subpixel data values according to a user-defined curve for shaping the digital image.

6. (Original) The method of claim 1 and further including applying an image processing operation to the new subpixel data.

7. (Original) The method of claim 6, wherein the image processing operation is a shading operation.

a2 8. (Original) The method of claim 6, wherein applying the image processing operation includes iteratively processing the new subpixel data values.

9. (Currently Amended) The method of claim 1, wherein the set of original subpixel data values are generated using pixel data produced by an image processing operation, wherein the pixel data has an integer component and a fractional component.

10. (Currently Amended) The method of claim 1, wherein generating a the set of original subpixel data values includes generating at least one two-dimensional array of original subpixel data values.

11. (Original) The method of claim 10, wherein generating at least one two-dimensional array includes generating an array having three columns and three rows.

12. (Original) The method of claim 10, wherein generating at least one two-dimensional array includes generating a plurality of subpixel arrays for each pixel and adjacent pixels of the digital image.

13. (Currently Amended) The method of claim 1, wherein generating a the set of original subpixel data values includes:

generating a plurality of sets of subpixel data values;  
selecting one new subpixel data value from each set and applying an image-processing operation to the selected new subpixel data values; and  
repeating iteratively the selection of the new subpixel data values from the sets and the application of the image-processing operation until all of the new subpixel data values have been processed.

14. (Original) The method of claim 1, wherein adjusting pixel data of the digital image includes updating the pixel data with an average of the new subpixel data values.

15. (Original) The method of claim 1, wherein the average of the new subpixel data values is a weighted average.

16. (Original) The method of claim 1, and further including examining the pixel data values to determine whether to generate subpixel data values for a corresponding pixel data value.

17. (Original) The method of claim 1, wherein adjusting pixel data of the digital image includes updating the pixel data with an integer value calculate from the new subpixel data values.

18. (Currently Amended) The method of claim 1, wherein the digital image is a digital matte and the method reduces aliasing artifacts when shaping the digital matte by generating the set of original subpixel data values as an array of subpixel data and mapping the original subpixel data values to the new subpixel data values by interpolating between elements of a lookup table representing a user-defined curve.

19. (Currently Amended) A computer program product, tangibly stored on a computer-readable medium, for processing a digital image, the product comprising instructions operable to cause a programmable processor to:

generate a set of original subpixel data values for a first pixel of a digital image as a function of pixel data of a the digital image;

map each of the original subpixel data values to a new subpixel data value, each new subpixel data value being determined solely by the corresponding original subpixel data value;  
and

adjust the first pixel data of the digital image according to the new subpixel data values.

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20. (Currently Amended) The computer program product of claim 19, wherein the programmable processor maps the original subpixel data values to new subpixel data values by processing each of the original subpixel data values with a lookup table representing a user-defined curve.

21. (Currently Amended) The computer program product of claim 20, wherein the programmable processor processes each of the original subpixel data values with the lookup table by interpolating between elements of the lookup table according to a fractional component of the original subpixel data value.

22. (Original) The computer program product of claim 19 and further including instructions to cause the programmable processor to apply an image processing operation to the new subpixel data.

23. (Original) The computer program product of claim 22, wherein the programmable processor iteratively applies the image processing operation to the new subpixel data values.

24. (Currently Amended) The computer program product of claim 19, wherein the programmable processor generates the set of original subpixel data values by:

generating a plurality of sets of subpixel data values;

selecting one new subpixel data value from each set and applying an image-processing operation to the selected new subpixel data values; and

repeating iteratively the selection of the new subpixel data values from the sets and the application of the image-processing operation until all of the new subpixel data values have been processed.

25. (Currently Amended) The computer program product of claim 19, wherein the programmable processor reduces aliasing artifacts in the digital image by generating the set of subpixel data values as an array of subpixel data and mapping the original subpixel data values to the new subpixel data values by interpolating between elements of a lookup table representing a user-defined curve.

26. (Currently Amended) A system comprising:

an operating environment provided by a computer; and

a computer program executing within the operating environment to reduce aliasing artifacts when shaping a digital image, wherein the computer program generate a set of original subpixel data values for a first pixel of a digital image as a function of pixel data of a the digital image, and further wherein the computer program shapes the digital image by mapping each of the original subpixel data values to a new subpixel data value, each new subpixel data value being determined solely by the corresponding original subpixel data value and adjust the first pixel data of the digital image according to the new subpixel data values.

27. (Currently Amended) The system of claim 26, wherein the computer program maps the original subpixel data values to new subpixel data values by processing each of the original subpixel data values with a lookup table representing a user-defined curve.

28. (Currently Amended) The system of claim 27, wherein the computer program processes each of the original subpixel data values with the lookup table by interpolating between elements of the lookup table according to a fractional component of the original subpixel data value.

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29. (Original) The system of claim 26, wherein the computer program applies an image processing operation to the new subpixel data.

30. (Original) The system of claim 26, wherein the digital image is a digital matte.

31-37. (Canceled)

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